

Features

- · Low Operating Voltage
- · Ultra Low Clamping Voltage
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- · Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

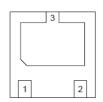
MCC Part Number	Device Marking
ESD12VP4	12P

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
IEC61000-4-4 (EFT) @5/50ns		80A	
Peak Pulse Current(8/20µs)	I _{PP}	200A	
Peak Pulse Power (8/20µs)	P _{PK}	6000W	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic

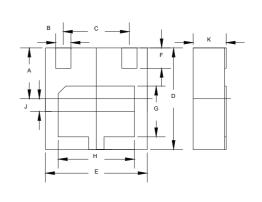




Transparent top view

ESD Protection Device

DFN2020-3L



	DIMENSIONS				
DIM		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.037	0.041	0.950	1.050	
В	0.010	0.014	0.250	0.350	
С	0.051		1.30		TYP.
D	0.075	0.083	1.900	2.100	
E	0.075	0.083	1.900	2.100	
F	0.014	0.018	0.350	0.450	
G	0.035	0.043	0.900	1.100	
Н	0.055	0.063	1.400	1.600	
J	0.008	0.012	0.200	0.300	
K	-	0.026	-	0.650	

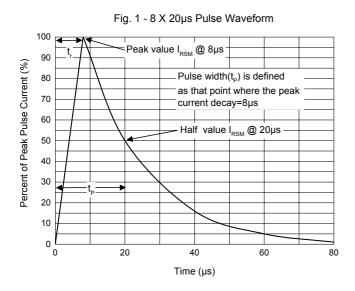


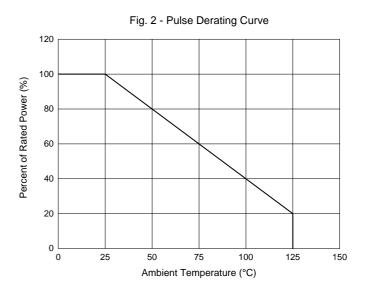
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

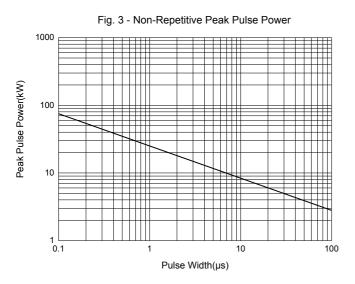
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}			12		V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	13			V
Reverse Leakage Current	I _R	V _{RWM} =12V			1	μA
Clamping Voltage	V _C	I _{PP} =20A, t _P =8/20μs			15	V
Clamping Voltage	V _C	I _{PP} =200A, t _P =8/20μs			30	V
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			550	pF

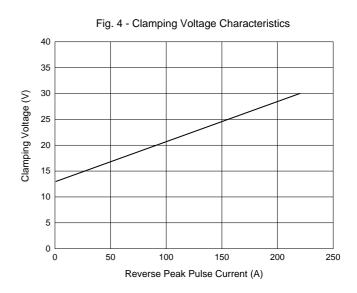


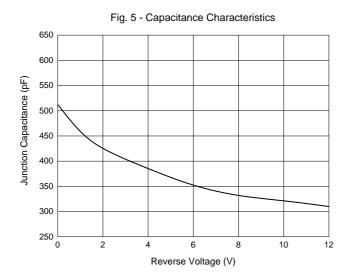
Curve Characteristics













Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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